



Docket No. 00279.112US1

24/c

Clean Version of the Amended Claims

METHOD AND APPARATUS FOR TREATING IRREGULAR VENTRICULAR CONTRACTIONS SUCH AS DURING ATRIAL ARRHYTHMIA

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Serial No.: 09/316,515

Please replace claims 1, 28, 58, 63, 91 with their corresponding claims, as amended, below:

C1
Sub
D1

1. (Amended) A method, including:
obtaining V-V intervals between ventricular beats;
computing a first indicated pacing interval, for a most recent V-V interval concluded by a paced beat and for a most recent V-V interval concluded by a sensed beat, by averaging a most recent V-V interval duration with a stored previously-computed value of the first indicated pacing interval; and
providing pacing therapy, based on the first indicated pacing interval.

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C2
Sub
D1

28. (Amended) A method, including:
detecting an atrial tachyarrhythmia;
obtaining V-V intervals between ventricular beats;
computing a first indicated pacing interval by averaging a most recent V-V interval duration with a previous value of the first indicated pacing interval; and
providing pacing therapy, based on the first indicated pacing interval, when the atrial tachyarrhythmia is present.

C3
sub
D1

58. (Amended) A cardiac rhythm management system, including:
a ventricular sensing circuit for sensing ventricular beats;
a controller, obtaining V-V intervals between ventricular beats and computing a first indicated pacing interval, for a most recent V-V interval concluded by a paced beat and for a most recent V-V interval concluded by a sensed beat, by averaging a most recent V-V interval duration with a stored previously-computed value of the first indicated pacing interval; and
a ventricular therapy circuit, providing pacing therapy based on the first indicated pacing interval.

C4
sub
D1

63. (Amended) A cardiac rhythm management system, including:
a ventricular sensing circuit;
a controller, the controller including:
a V-V interval timer;
a first register, for storing a first indicated pacing interval;
a filter, updating the first indicated pacing interval, for a most recent V-V interval concluded by a paced beat and for a most recent V-V interval concluded by a sensed beat, by averaging the most recent V-V interval stored in the V-V interval timer with the previously-computed stored value of first indicated pacing interval stored in the first register; and
a ventricular therapy circuit, providing pacing therapy based at least partially on the first indicated pacing interval.

- Sub
D1
CS
cont
91. (Amended) A cardiac rhythm management system, including:
a ventricular sensing circuit;
a controller, the controller including:
a V-V interval timer;
a first register, for storing a first indicated pacing interval;
means for updating the first indicated pacing interval, for a most recent V-V interval concluded by a paced and for a most recent V-V interval concluded by a sensed beat, by averaging a most recent V-V interval duration with a stored previously-computed value of the first indicated pacing interval; and
a ventricular therapy circuit, providing pacing therapy based at least partially on the first indicated pacing interval.